



IFW16

## RAW SEQUENCE LISTING

DATE: 08/02/2004

PATENT APPLICATION: US/09/853,880A

TIME: 10:37:52

Input Set : N:\Crf4\07302004\I853880A.raw

Output Set: N:\CRF4\08022004\I853880A.raw

1 <110> APPLICANT: Riggins, Gregory  
 2 Lal, Anita  
 3 Loging, William  
 4 <120> TITLE OF INVENTION: FOUR GENETIC TUMOR MARKERS SPECIFIC FOR  
 5 HUMAN GLIOBLASTOMA  
 6 <130> FILE REFERENCE: 00250.00003  
 C--> 7 <140> **CURRENT APPLICATION NUMBER: US/09/853,880A**  
 8 <141> CURRENT FILING DATE: 2001-05-14  
 9 <160> NUMBER OF SEQ ID NOS: 17  
 10 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 12 <210> SEQ ID NO: 1  
 13 <211> LENGTH: 17  
 14 <212> TYPE: DNA  
 15 <213> ORGANISM: Artificial Sequence  
 16 <220> FEATURE:  
 17 <223> OTHER INFORMATION: PCR primer  
 18 <400> SEQUENCE: 1  
 19 cgtcttcccc tccatcg  
 21 <210> SEQ ID NO: 2  
 22 <211> LENGTH: 18  
 23 <212> TYPE: DNA  
 24 <213> ORGANISM: Artificial Sequence  
 25 <220> FEATURE:  
 26 <223> OTHER INFORMATION: PCR primer  
 27 <400> SEQUENCE: 2  
 28 ctcggttaatg tcacgcac  
 30 <210> SEQ ID NO: 3  
 31 <211> LENGTH: 20  
 32 <212> TYPE: DNA  
 33 <213> ORGANISM: Artificial Sequence  
 34 <220> FEATURE:  
 35 <223> OTHER INFORMATION: PCR primer  
 36 <400> SEQUENCE: 3  
 37 ttactttaat ttagaaatag  
 39 <210> SEQ ID NO: 4  
 40 <211> LENGTH: 20  
 41 <212> TYPE: DNA  
 42 <213> ORGANISM: Artificial Sequence  
 43 <220> FEATURE:  
 44 <223> OTHER INFORMATION: PCR primer  
 45 <400> SEQUENCE: 4  
 46 atcaggtaat gcagtttggt  
 48 <210> SEQ ID NO: 5



17

18

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```

49 <211> LENGTH: 19
50 <212> TYPE: DNA
51 <213> ORGANISM: Artificial Sequence
52 <220> FEATURE:
53 <223> OTHER INFORMATION: PCR primer
54 <400> SEQUENCE: 5
55     ctgcctagac ggtgtgaag                                     19
57 <210> SEQ ID NO: 6
58 <211> LENGTH: 20
59 <212> TYPE: DNA
60 <213> ORGANISM: Artificial Sequence
61 <220> FEATURE:
62 <223> OTHER INFORMATION: PCR primer
63 <400> SEQUENCE: 6
64     agtggctggc tctgagtcac                                     20
66 <210> SEQ ID NO: 7
67 <211> LENGTH: 22
68 <212> TYPE: DNA
69 <213> ORGANISM: Artificial Sequence
70 <220> FEATURE:
71 <223> OTHER INFORMATION: PCR primer
72 <400> SEQUENCE: 7
73     catcgacctg gagactgaca ac                                   22
75 <210> SEQ ID NO: 8
76 <211> LENGTH: 20
77 <212> TYPE: DNA
78 <213> ORGANISM: Artificial Sequence
79 <220> FEATURE:
80 <223> OTHER INFORMATION: PCR primer
81 <400> SEQUENCE: 8
82     ccattctgcg gacatatttg                                     20
84 <210> SEQ ID NO: 9
85 <211> LENGTH: 19
86 <212> TYPE: DNA
87 <213> ORGANISM: Artificial Sequence
88 <220> FEATURE:
89 <223> OTHER INFORMATION: PCR primer
90 <400> SEQUENCE: 9
91     agccagcaag atccgagtg                                     19
93 <210> SEQ ID NO: 10
94 <211> LENGTH: 20
95 <212> TYPE: DNA
96 <213> ORGANISM: Artificial Sequence
97 <220> FEATURE:
98 <223> OTHER INFORMATION: PCR primer
99 <400> SEQUENCE: 10
100    gcacaatcta agccacgctg                                     20
102 <210> SEQ ID NO: 11
103 <211> LENGTH: 20

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```

104 <212> TYPE: DNA
105 <213> ORGANISM: Artificial Sequence
106 <220> FEATURE:
107 <223> OTHER INFORMATION: PCR primer
108 <400> SEQUENCE: 11
109      gcaggcctgg tttattgaaa                20
111 <210> SEQ ID NO: 12
112 <211> LENGTH: 20
113 <212> TYPE: DNA
114 <213> ORGANISM: Artificial Sequence
115 <220> FEATURE:
116 <223> OTHER INFORMATION: PCR primer
117 <400> SEQUENCE: 12
118      ggttgcttca tccacacctt                20
120 <210> SEQ ID NO: 13
121 <211> LENGTH: 19
122 <212> TYPE: DNA
123 <213> ORGANISM: Artificial Sequence
124 <220> FEATURE:
125 <223> OTHER INFORMATION: PCR primer
126 <400> SEQUENCE: 13
127      aggtcacagg tctcgaaaa                19
129 <210> SEQ ID NO: 14
130 <211> LENGTH: 20
131 <212> TYPE: DNA
132 <213> ORGANISM: Artificial Sequence
133 <220> FEATURE:
134 <223> OTHER INFORMATION: PCR primer
135 <400> SEQUENCE: 14
136      agagggtggtg gaagaaactg                20
138 <210> SEQ ID NO: 15
139 <211> LENGTH: 20
140 <212> TYPE: DNA
141 <213> ORGANISM: Artificial Sequence
142 <220> FEATURE:
143 <223> OTHER INFORMATION: PCR primer
144 <400> SEQUENCE: 15
145      aactctaccc agtgtggaag                20
147 <210> SEQ ID NO: 16
148 <211> LENGTH: 20
149 <212> TYPE: DNA
150 <213> ORGANISM: Artificial Sequence
151 <220> FEATURE:
152 <223> OTHER INFORMATION: PCR primer
153 <400> SEQUENCE: 16
154      ttgaggaagt ggctaggatc                20
156 <210> SEQ ID NO: 17
157 <211> LENGTH: 560
158 <212> TYPE: PRT

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159 &lt;213&gt; ORGANISM: Homo sapiens

160 &lt;400&gt; SEQUENCE: 17

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161 Met Glu Cys Leu Tyr Tyr Phe Leu Gly Phe Leu Leu Leu Ala Ala Arg
162 1 5 10 15
163 Leu Pro Leu Asp Ala Ala Lys Arg Phe His Asp Val Leu Gly Asn Glu
164 20 25 30
165 Arg Pro Ser Ala Tyr Met Arg Glu His Asn Gln Leu Asn Gly Trp Ser
166 35 40 45
167 Ser Asp Glu Asn Asp Trp Asn Glu Lys Leu Tyr Pro Val Trp Lys Arg
168 50 55 60
169 Gly Asp Met Arg Trp Lys Asn Ser Trp Lys Gly Gly Arg Val Gln Ala
170 65 70 75 80
171 Val Leu Thr Ser Asp Ser Pro Ala Leu Val Gly Ser Asn Ile Thr Phe
172 85 90 95
173 Ala Val Asn Leu Ile Phe Pro Arg Cys Gln Lys Glu Asp Ala Asn Gly
174 100 105 110
175 Asn Ile Val Tyr Glu Lys Asn Cys Arg Asn Glu Ala Gly Leu Ser Ala
176 115 120 125
177 Asp Pro Tyr Val Tyr Asn Trp Thr Ala Trp Ser Glu Asp Ser Asp Gly
178 130 135 140
179 Glu Asn Gly Thr Gly Gln Ser His His Asn Val Phe Pro Asp Gly Lys
180 145 150 155 160
181 Pro Phe Pro His His Pro Gly Trp Arg Arg Trp Asn Phe Ile Tyr Val
182 165 170 175
183 Phe His Thr Leu Gly Gln Tyr Phe Gln Lys Leu Gly Arg Cys Ser Val
184 180 185 190
185 Arg Val Ser Val Asn Thr Ala Asn Val Thr Leu Gly Pro Gln Leu Met
186 195 200 205
187 Glu Val Thr Val Tyr Arg Arg His Gly Arg Ala Tyr Val Pro Ile Ala
188 210 215 220
189 Gln Val Lys Asp Val Tyr Val Val Thr Asp Gln Ile Pro Val Phe Val
190 225 230 235 240
191 Thr Met Phe Gln Lys Asn Asp Arg Asn Ser Ser Asp Glu Thr Phe Leu
192 245 250 255
193 Lys Asp Leu Pro Ile Met Phe Asp Val Leu Ile His Asp Pro Ser His
194 260 265 270
195 Phe Leu Asn Tyr Ser Thr Ile Asn Tyr Lys Trp Ser Phe Gly Asp Asn
196 275 280 285
197 Thr Gly Leu Phe Val Ser Thr Asn His Thr Val Asn His Thr Tyr Val
198 290 295 300
199 Leu Asn Gly Thr Phe Ser Leu Asn Leu Thr Val Lys Ala Ala Ala Pro
200 305 310 315 320
201 Gly Pro Cys Pro Pro Pro Pro Pro Pro Pro Arg Pro Ser Lys Pro Thr
202 325 330 335
203 Pro Ser Leu Gly Pro Ala Gly Asp Asn Pro Leu Glu Leu Ser Arg Ile
204 340 345 350
205 Pro Asp Glu Asn Cys Gln Ile Asn Arg Tyr Gly His Phe Gln Ala Thr
206 355 360 365
207 Ile Thr Ile Val Glu Gly Ile Leu Glu Val Asn Ile Ile Gln Met Thr

```

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208		370			375			380						
209	Asp	Val	Leu	Met	Pro	Val	Pro	Trp	Pro	Glu	Ser	Ser	Leu	Ile
210	385					390				395				400
211	Val	Val	Thr	Cys	Gln	Gly	Ser	Ile	Pro	Thr	Glu	Val	Cys	Thr
212					405					410				415
213	Ser	Asp	Pro	Thr	Cys	Glu	Ile	Thr	Gln	Asn	Thr	Val	Cys	Ser
214				420					425					430
215	Asp	Val	Asp	Glu	Met	Cys	Leu	Leu	Thr	Val	Arg	Arg	Thr	Phe
216			435					440					445	
217	Ser	Gly	Thr	Tyr	Cys	Val	Asn	Leu	Thr	Leu	Gly	Asp	Asp	Thr
218		450					455					460		
219	Ala	Leu	Thr	Ser	Thr	Leu	Ile	Ser	Val	Pro	Asp	Arg	Asp	Pro
220	465					470				475				480
221	Pro	Leu	Arg	Met	Ala	Asn	Ser	Ala	Leu	Ile	Ser	Val	Gly	Cys
222					485					490				495
223	Ile	Phe	Val	Thr	Val	Ile	Ser	Leu	Leu	Val	Tyr	Lys	Lys	His
224			500						505					510
225	Tyr	Asn	Pro	Ile	Glu	Asn	Ser	Pro	Gly	Asn	Val	Val	Arg	Ser
226			515					520					525	
227	Leu	Ser	Val	Phe	Leu	Asn	Arg	Ala	Lys	Ala	Val	Phe	Phe	Pro
228		530				535					540			
229	Gln	Glu	Lys	Asp	Pro	Leu	Leu	Lys	Asn	Gln	Glu	Phe	Lys	Gly
230	545					550				555				560

**VERIFICATION SUMMARY**

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L:7 M:270 C: Current Application Number differs, Wrong Format